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Adding Fractions

$$1) \quad \frac{7}{9} + \frac{8}{27} = \frac{21}{27} + \frac{8}{27} = \frac{29}{27} = 1\frac{2}{27}$$

$$2) \quad \frac{17}{48} + \frac{14}{16} = \frac{17}{48} + \frac{42}{48} = \frac{59}{48} = 1\frac{11}{48}$$

$$3) \quad \frac{4}{7} + \frac{2}{14} = \frac{8}{14} + \frac{2}{14} = \frac{10}{14} = \frac{5}{7}$$

$$4) \quad \frac{17}{39} + \frac{1}{6} = \frac{34}{78} + \frac{13}{78} = \frac{47}{78}$$

$$5) \quad \frac{6}{22} + \frac{1}{5} = \frac{30}{110} + \frac{22}{110} = \frac{52}{110} = \frac{26}{55}$$

$$6) \quad \frac{12}{15} + \frac{4}{10} = \frac{24}{30} + \frac{12}{30} = \frac{36}{30} = \frac{6}{5} = 1\frac{1}{5}$$

$$7) \quad \frac{4}{6} + \frac{2}{3} = \frac{4}{6} + \frac{4}{6} = \frac{8}{6} = \frac{4}{3} = 1\frac{1}{3}$$

$$8) \quad \frac{5}{31} + \frac{6}{62} = \frac{10}{62} + \frac{6}{62} = \frac{16}{62} = \frac{8}{31}$$

$$9) \quad \frac{5}{70} + \frac{3}{7} = \frac{5}{70} + \frac{30}{70} = \frac{35}{70} = \frac{1}{2}$$

$$10) \quad \frac{15}{21} + \frac{2}{3} = \frac{15}{21} + \frac{14}{21} = \frac{29}{21} = 1\frac{8}{21}$$



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Adding Mixed Numbers

$$1) \quad 2\frac{8}{12} + 7\frac{1}{4} = \quad 2\frac{8}{12} + 7\frac{3}{12} = \quad 9\frac{11}{12}$$

$$2) \quad 1\frac{8}{55} + 8\frac{8}{11} = \quad 1\frac{8}{55} + 8\frac{40}{55} = \quad 9\frac{48}{55}$$

$$3) \quad 5\frac{16}{23} + 6\frac{6}{46} = \quad 5\frac{32}{46} + 6\frac{6}{46} = \quad 11\frac{38}{46} = \quad 11\frac{19}{23}$$

$$4) \quad 4\frac{2}{5} + 9\frac{4}{15} = \quad 4\frac{6}{15} + 9\frac{4}{15} = \quad 13\frac{10}{15} = \quad 13\frac{2}{3}$$

$$5) \quad 2\frac{2}{21} + 7\frac{3}{6} = \quad 2\frac{4}{42} + 7\frac{21}{42} = \quad 9\frac{25}{42}$$

$$6) \quad 6\frac{6}{11} + 9\frac{1}{22} = \quad 6\frac{12}{22} + 9\frac{1}{22} = \quad 15\frac{13}{22}$$

$$7) \quad 2\frac{6}{55} + 6\frac{8}{11} = \quad 2\frac{6}{55} + 6\frac{40}{55} = \quad 8\frac{46}{55}$$

$$8) \quad 5\frac{7}{10} + 9\frac{7}{30} = \quad 5\frac{21}{30} + 9\frac{7}{30} = \quad 14\frac{28}{30} = \quad 14\frac{14}{15}$$

$$9) \quad 2\frac{13}{21} + 8\frac{6}{7} = \quad 2\frac{13}{21} + 8\frac{18}{21} = \quad 10\frac{31}{21} = \quad 11\frac{10}{21}$$

$$10) \quad 6\frac{7}{9} + 9\frac{15}{54} = \quad 6\frac{42}{54} + 9\frac{15}{54} = \quad 15\frac{57}{54} = \quad 16\frac{1}{18}$$



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Subtracting Fractions

1) $\frac{8}{41} - \frac{5}{82} = \frac{16}{82} - \frac{5}{82} = \frac{11}{82}$

2) $\frac{6}{12} - \frac{11}{60} = \frac{30}{60} - \frac{11}{60} = \frac{19}{60}$

3) $\frac{4}{11} - \frac{2}{22} = \frac{8}{22} - \frac{2}{22} = \frac{6}{22} = \frac{3}{11}$

4) $\frac{4}{11} - \frac{7}{55} = \frac{20}{55} - \frac{7}{55} = \frac{13}{55}$

5) $\frac{2}{4} - \frac{5}{14} = \frac{14}{28} - \frac{10}{28} = \frac{4}{28} = \frac{1}{7}$

6) $\frac{6}{17} - \frac{7}{68} = \frac{24}{68} - \frac{7}{68} = \frac{17}{68} = \frac{1}{4}$

7) $\frac{4}{5} - \frac{6}{8} = \frac{32}{40} - \frac{30}{40} = \frac{2}{40} = \frac{1}{20}$

8) $\frac{6}{46} - \frac{2}{23} = \frac{6}{46} - \frac{4}{46} = \frac{2}{46} = \frac{1}{23}$

9) $\frac{9}{16} - \frac{18}{32} = \frac{18}{32} - \frac{18}{32} = 0$

10) $\frac{2}{3} - \frac{4}{9} = \frac{6}{9} - \frac{4}{9} = \frac{2}{9}$

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Subtracting Mixed Numbers

1) $5\frac{12}{29} - 3\frac{15}{58} = 5\frac{24}{58} - 3\frac{15}{58} = 2\frac{9}{58}$

2) $8\frac{2}{4} - 1\frac{12}{28} = 8\frac{14}{28} - 1\frac{12}{28} = 7\frac{2}{28} = 7\frac{1}{14}$

3) $5\frac{7}{8} - 1\frac{3}{4} = 5\frac{7}{8} - 1\frac{6}{8} = 4\frac{1}{8}$

4) $6\frac{2}{3} - 2\frac{4}{8} = 6\frac{16}{24} - 2\frac{12}{24} = 4\frac{4}{24} = 4\frac{1}{6}$

5) $6\frac{5}{7} - 2\frac{5}{21} = 6\frac{15}{21} - 2\frac{5}{21} = 4\frac{10}{21}$

6) $9\frac{2}{6} - 2\frac{5}{24} = 9\frac{8}{24} - 2\frac{5}{24} = 7\frac{3}{24} = 7\frac{1}{8}$

7) $6\frac{7}{8} - 3\frac{11}{56} = 6\frac{49}{56} - 3\frac{11}{56} = 3\frac{38}{56} = 3\frac{19}{28}$

8) $6\frac{16}{27} - 1\frac{2}{6} = 6\frac{32}{54} - 1\frac{18}{54} = 5\frac{14}{54} = 5\frac{7}{27}$

9) $5\frac{2}{6} - 4\frac{3}{27} = 5\frac{18}{54} - 4\frac{6}{54} = 1\frac{12}{54} = 1\frac{2}{9}$

10) $5\frac{4}{8} - 3\frac{1}{5} = 5\frac{20}{40} - 3\frac{8}{40} = 2\frac{12}{40} = 2\frac{3}{10}$

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Multiplying Fractions with Cross Canceling

$$1) \quad \frac{1}{20} \times \frac{3}{30} = \frac{1 \times \cancel{3}^1}{20 \times \cancel{30}_{10}} = \frac{1}{200}$$

$$2) \quad \frac{2}{30} \times \frac{6}{21} = \frac{2 \times \cancel{6}^1}{5 \cancel{30} \times 21} = \frac{2}{105}$$

$$3) \quad \frac{1}{8} \times \frac{19}{26} = \frac{1 \times 19}{8 \times 26} = \frac{19}{208}$$

$$4) \quad \frac{1}{8} \times \frac{2}{10} = \frac{1 \times \cancel{2}^1}{4 \cancel{8} \times 10} = \frac{1}{40}$$

$$5) \quad \frac{5}{9} \times \frac{5}{28} = \frac{5 \times 5}{9 \times 28} = \frac{25}{252}$$

$$6) \quad \frac{1}{2} \times \frac{4}{5} = \frac{1 \times \cancel{4}^2}{1 \cancel{2} \times 5} = \frac{2}{5}$$

$$7) \quad \frac{10}{21} \times \frac{2}{12} = \frac{5 \cancel{10} \times \cancel{2}^1}{21 \times \cancel{12}_6 \cdot 3} = \frac{5}{63}$$

$$8) \quad \frac{13}{16} \times \frac{1}{20} = \frac{13 \times 1}{16 \times 20} = \frac{13}{320}$$

$$9) \quad \frac{1}{20} \times \frac{2}{5} = \frac{1 \times \cancel{2}^1}{10 \cancel{20} \times 5} = \frac{1}{50}$$

$$10) \quad \frac{5}{9} \times \frac{1}{22} = \frac{5 \times 1}{9 \times 22} = \frac{5}{198}$$

Remember: You can CROSS CANCEL **BEFORE** multiplying



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Multiplying Mixed Numbers

$$1) \quad 4\frac{3}{4} \times 4\frac{2}{3} = \frac{19 \times 14}{4 \times 3} = \frac{266}{12} = \frac{133}{6} = 22\frac{1}{6}$$

$$2) \quad 2\frac{1}{4} \times 2\frac{3}{5} = \frac{9 \times 13}{4 \times 5} = \frac{117}{20} = 5\frac{17}{20}$$

$$3) \quad 3\frac{1}{5} \times 3\frac{3}{4} = \frac{16 \times 15}{5 \times 4} = \frac{240}{20} = 12$$

$$4) \quad 2\frac{1}{3} \times 2\frac{1}{2} = \frac{7 \times 5}{3 \times 2} = \frac{35}{6} = 5\frac{5}{6}$$

$$5) \quad 4\frac{1}{2} \times 3\frac{1}{3} = \frac{9 \times 10}{2 \times 3} = \frac{90}{6} = 15$$

$$6) \quad 3\frac{1}{4} \times 3\frac{1}{2} = \frac{13 \times 7}{4 \times 2} = \frac{91}{8} = 11\frac{3}{8}$$

$$7) \quad 4\frac{1}{2} \times 2\frac{1}{2} = \frac{9 \times 5}{2 \times 2} = \frac{45}{4} = 11\frac{1}{4}$$

$$8) \quad 2\frac{1}{2} \times 3\frac{1}{2} = \frac{5 \times 7}{2 \times 2} = \frac{35}{4} = 8\frac{3}{4}$$

$$9) \quad 4\frac{1}{10} \times 3\frac{3}{4} = \frac{41 \times 15}{10 \times 4} = \frac{615}{40} = \frac{123}{8} = 15\frac{3}{8}$$

$$10) \quad 2\frac{1}{2} \times 2\frac{4}{5} = \frac{5 \times 14}{2 \times 5} = \frac{70}{10} = 7$$

Convert mixed numbers to improper fractions, THEN cross cancel if possible.



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Dividing Fractions

$$1) \quad \frac{5}{6} \div \frac{2}{10} = \frac{5 \times 10}{6 \times 2} = \frac{50}{12} = \frac{25}{6} = 4\frac{1}{6}$$

$$2) \quad \frac{3}{7} \div \frac{4}{8} = \frac{3 \times 8}{7 \times 4} = \frac{24}{28} = \frac{6}{7}$$

$$3) \quad \frac{2}{4} \div \frac{4}{7} = \frac{2 \times 7}{4 \times 4} = \frac{14}{16} = \frac{7}{8}$$

$$4) \quad \frac{2}{3} \div \frac{4}{5} = \frac{2 \times 5}{3 \times 4} = \frac{10}{12} = \frac{5}{6}$$

$$5) \quad \frac{1}{2} \div \frac{4}{6} = \frac{1 \times 6}{2 \times 4} = \frac{6}{8} = \frac{3}{4}$$

$$6) \quad \frac{1}{3} \div \frac{2}{5} = \frac{1 \times 5}{3 \times 2} = \frac{5}{6}$$

$$7) \quad \frac{1}{2} \div \frac{6}{8} = \frac{1 \times 8}{2 \times 6} = \frac{8}{12} = \frac{2}{3}$$

$$8) \quad \frac{3}{4} \div \frac{4}{6} = \frac{3 \times 6}{4 \times 4} = \frac{18}{16} = \frac{9}{8} = 1\frac{1}{8}$$

$$9) \quad \frac{1}{3} \div \frac{2}{9} = \frac{1 \times 9}{3 \times 2} = \frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$$

$$10) \quad \frac{5}{6} \div \frac{4}{8} = \frac{5 \times 8}{6 \times 4} = \frac{40}{24} = \frac{5}{3} = 1\frac{2}{3}$$

Remember: Dividing Fractions is the same as Multiplying by the reciprocal (flip)  Math-Aids.Com
Fractions Worksheets

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Dividing Mixed Numbers

$$1) \quad 3\frac{3}{4} \div 4\frac{1}{2} = \frac{15 \times 2}{4 \times 9} = \frac{30}{36} = \frac{5}{6}$$

$$2) \quad 3\frac{1}{2} \div 2\frac{1}{5} = \frac{7 \times 5}{2 \times 11} = \frac{35}{22} = 1\frac{13}{22}$$

$$3) \quad 4\frac{1}{2} \div 3\frac{1}{2} = \frac{9 \times 2}{2 \times 7} = \frac{18}{14} = \frac{9}{7} = 1\frac{2}{7}$$

$$4) \quad 4\frac{1}{2} \div 2\frac{4}{5} = \frac{9 \times 5}{2 \times 14} = \frac{45}{28} = 1\frac{17}{28}$$

$$5) \quad 3\frac{1}{5} \div 2\frac{1}{2} = \frac{16 \times 2}{5 \times 5} = \frac{32}{25} = 1\frac{7}{25}$$

$$6) \quad 3\frac{3}{5} \div 4\frac{1}{2} = \frac{18 \times 2}{5 \times 9} = \frac{36}{45} = \frac{4}{5}$$

$$7) \quad 4\frac{1}{2} \div 4\frac{1}{2} = \frac{9 \times 2}{2 \times 9} = \frac{18}{18} = 1$$

$$8) \quad 2\frac{1}{2} \div 4\frac{1}{2} = \frac{5 \times 2}{2 \times 9} = \frac{10}{18} = \frac{5}{9}$$

$$9) \quad 2\frac{1}{2} \div 4\frac{3}{4} = \frac{5 \times 4}{2 \times 19} = \frac{20}{38} = \frac{10}{19}$$

$$10) \quad 4\frac{1}{2} \div 3\frac{3}{5} = \frac{9 \times 5}{2 \times 18} = \frac{45}{36} = \frac{5}{4} = 1\frac{1}{4}$$